

Figure 1

E TOOMe To Solution I)
$$\frac{1) \text{ PCI}_{5}}{2) \text{ HBr}}$$
 $E = \frac{1) \text{ PCI}_{5}}{3) \text{ MeOH}}$
 $E = \frac{1}{3} \text{ MeOH}$
 $E = \frac{1}$

E = COOH

Br CO₂Me PhNC
$$\rightarrow$$
 CO₂Me \rightarrow CO₂Me \rightarrow Re3SnSnMe3 \rightarrow N \rightarrow Et \rightarrow CO₂Me \rightarrow Et \rightarrow CO₂Me

Figure 2

Figure 4a

CH₃0

CH₃0

CH₃0

$$E_t$$

$$\begin{array}{c}
\text{CF}_{3} \\
\text{CF}_{3} \\
\text{Me}_{3} \text{SnSnMe}_{3}
\end{array}$$

$$\begin{array}{c}
\text{CF}_{3} \\
\text{Me}_{3} \text{SnSnMe}_{3}
\end{array}$$

$$\begin{array}{c}
\text{Et} \\
\text{Et}
\end{array}$$

$$\begin{array}{c}
\text{Et}
\end{array}$$

F₃

$$F_3$$

$$Me_3SnSnMe_3$$

$$12f$$

$$Et$$

$$CF_3$$

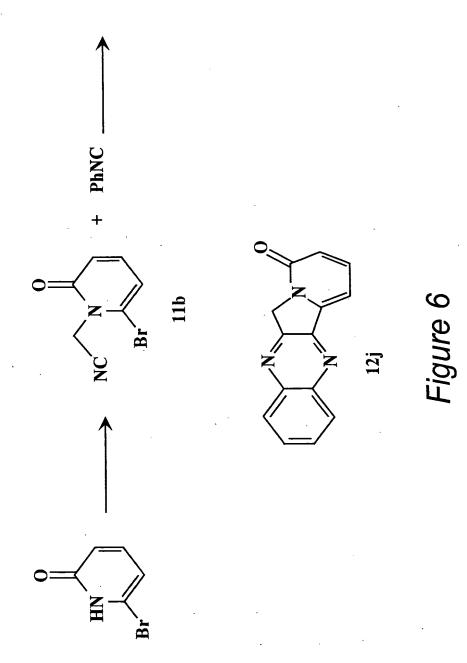
$$CO_2Me$$

$$Et$$

$$Et$$

$$Figure 4f$$

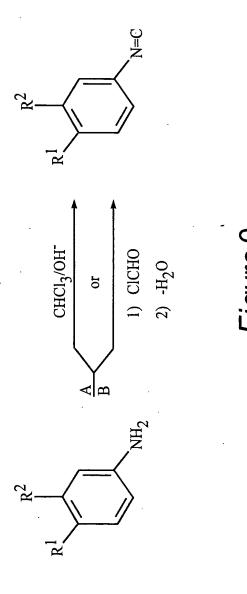
$$\begin{array}{c} \text{H}_3\text{O} \\ \text{H}_3\text{O} \\ \text{O}_{-NC} \\ \text{M}_{63}\text{SnSnMe}_3 \\ \text{CH}_3\text{O} \\ \text{C$$



†

Figure 8

12k



Et₃SiH, TFA

$$(63\%)$$

$$16$$

$$Figure 10A$$

$$(66\%)$$

$$17$$

$$OMe$$

$$K_{2}CO_{3}, Bu_{4}NBr$$

$$(66\%)$$

$$17$$

$$Figure 10A$$

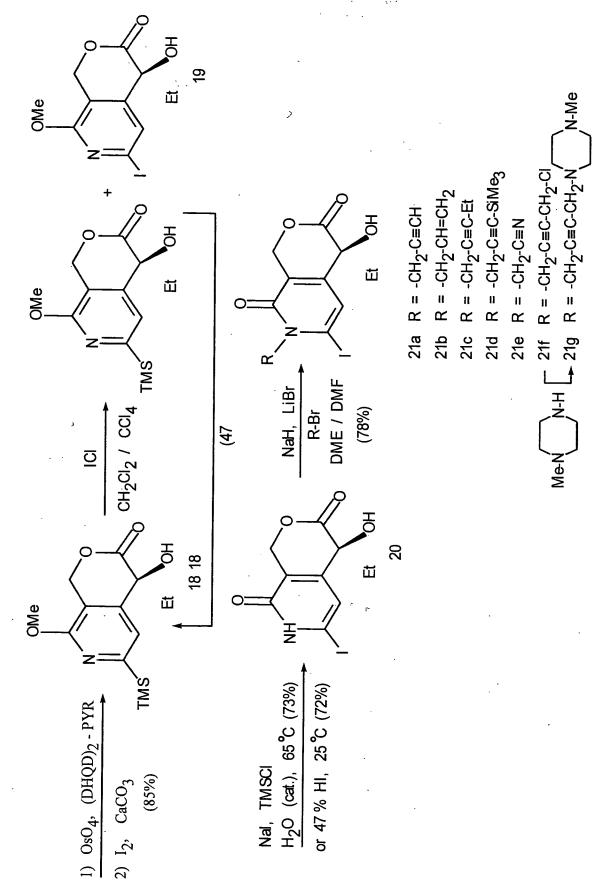


Figure 10B

Figure 11

Figure 15

Me₃SnSnMe₃

21%

Figure 16

4